THE VERTICAL FARM

RESEARCH CENTRE IN SEEHAUSEN Germany



Our Vision!

- Build the first researched center for artificial intelligence Vertical farm in Germany.
- Relying on artificial intelligence to create the vertical farming
- Build a research center who host worldwide vertical farming scientists and talent student.
- Create an environment mixed of science and tourist, hoping Seehausen become as artificial intelligence Vertical farm City in the world



ABOUT US:



2

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TABLE OF CONTENTS

01 VERTICAL FARMING

02 LOCATION OF THE PROJECT

03 Project Design



01

Vertical Farming THE SOLUTION

Vertical farming is a new urban farming system that emphasize on the idea of all year food production nonstop within control growing condition inside buildings in urban city.

it was first proposed by despommier (2011) to have a new agriculture system

THIS FARMING METHOD CHARACTERISED BY :



BY USING THIS FARMING METHOD :



ELIMINATE COST AND CARBON FOOTBRINT FOR FOOD TRANSPORTATION





PROVIDES BETTER OUALITIES OF FARM BY ELIMINATE THE USE OF HARMFUL CHEMICALS; PESTICIDES; FERTILISER THAT USEED IN TRADITIONAL FARMING

IT CAN ACHIEVE SUBSTANTIALLY HIGHER YIELD WITH USING ONLY 5-10% WATER USED AS COMPARE TO TRADITIONAL FARMING

PRESERVE SOILS FROM DEGRADATION





THE MARKET

From the map we can see that countries with limited arable land such as singapore have adopted vertical farming in a more rapid pace. singapore as of its geographical location, it has limited access to fertile land and clean water.

NAME	SKY GREENS FARMS
LOCATION	SINGAPORE
HEIGHT	9M
AREA	600 M ²
YEAR	2009
PRODUCT	Green vegetables

TECHNOLOGY

SMART WATER RECYCLING

Smart water recycling system. taking advantage of plant evaporation, is devloped to control environment farming to recycle majority of water used. it allows less dependent

ARTIFICIAL LIGHTING

Artificial lighting is the largest energy usage in the system, new type of led specifically designed for indoor farming is developed to make growin more

effcient and energy-saving

HVAC SYSTE

HVAC system to control the composition of carbon dioxide and oxygen and maintaining temperature are also critical for effective plant growth

RENEWABLE ENERGY

There are solar and wind power as renewable energy



倒















11 150 m²

Former station building with outbuildings in 17291 Oberuckersee OT Seehausen



WHY THE SEEHAUSEN LOCATION?



✓ By Train

The proximity to bus and train makes it easy for young and old to explore the beautiful surroundings of the Uckermark and to escape the stress of everyday life with a few hours' travel time. ... And who knows, whether one or the other might not find himself spending his next vacation in the serenity of the Uckermark instead of in Tuscany.





Oberuckersee in Brandenburg Landkreis Uckermark PLZ: 17291 Openstreetmap & StadtBranche.de



WHY THE SEEHAUSEN LOCATION?

✓ By Bicycle

With its special environment, Seehausen/Uckermark provides every fan of nature and tranquility with beautiful and amazing corners. As a special station (centre of the Berlin-Usedom cycle path), the interesting stop offers many hospitality offers that can be explored by bike to your heart's content.





PROJECT DESIGN

RESEARCH CENTRE IN SEEHAUSEN



WHAT DO WE WANT TO ACHIEVE?



PLANNING

A unique and innovative facility is planned



RESEARCH

Culturally growing diversity in the region as an opportunity for joint international knowledge transfer and exchange



RECREATION Rest area for the pausing cyclists



FARMING

In addition, the location serves as an innovation center for the development of modern hydroponics by VARMING GmbH. The technology required for this is being further developed and diversified here.



PROJECT DESIGN

- Hotel and resort for national and international guests
- Vertical Farming and Vertical Farming Technology Research Center
- Holiday homes and apartments for relaxation

133.85

A2

cs

C6

 Laboratories and technology containers for students and researchers

19.71

Charles Start 183mt C3

235

111.09

PROJECT DESIGN

Hotel and resort for national and international guests

- Vertical Farming and Vertical Farming Technology Research Center
- Holiday homes and apartments for relaxation
- Laboratories and technology containers for students and researchers









VARMING HOTEL

- > 15 furnished modern apartments
- Relaxation areas with library and fireplace
- Restaurant with products from the VARMING line
 - Smart and energy-efficient equipment
- Sauna landscape with relaxation area, Massage beds and relaxation zone, Sports area with fitness equipment











VARMING STUDIOS

- Attractive and modern apartments for recreation
 - Accommodation for regional employees
 - Overnight accommodation for scientists and students
 - 12 holiday apartments spread over
 6 houses with their own natural pools and ponds in each house
 - Hardly any holiday resorts within a 20-minute radius.









- Mobility creates freedom
 - Isolated scientific unit for the trend of future
- Concept module for vertical farming product portfolio
- Not yet implemented in Germany
 - Different forms of container solution possible



4





VARMING CAMPING

 Attractive and modern apartments twelve camping houses are available for nature-friendly families

Equipment at the highest level

 Hotel and Vertical Farm services can be used at the same time

 Charging stations and equipment for cyclists and e-cyclists

 Directly connected playground for children.





VARMING EVENTS

- Barbecue and fire pit
- playground for children
- Event area with a small stage
- Senior-friendly public area
- VARMING weekly market for all hungry people





Vertical Farming to rebuild our food Systems

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OUR WEBSITE

> Vertical Farming_2022 (hs-sites.com)

THANKS!

Does anyone have any questions?

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